

IN THE CLAIMS

The following is a complete listing of the claims, and replaces all earlier versions and listings.

1. (Currently Amended) An image processing apparatus comprising:
an image pickup means for producing unit, adapted to produce
image data by photographing an image;
a first storage means for storing unit, adapted to store image data
obtained by said image pickup [[means]] unit;
a compression unit, adapted to compress the image data in units of n
lines;
a size reduction means for reducing unit, adapted to reduce the size
of the image data stored in said first storage means after reading out the image data unit;
an image supply unit, adapted to supply the image data stored in said
first storage unit to said compression unit and said size reduction unit in parallel without
reducing the size of the image data; and
a second storage means for storing, in a unit corresponding to a
predetermined number of lines, unit, adapted to store the size-reduced image data obtained
by said size reduction means, and unit,
single compression means for alternately performing, according to a
predetermined switching timing, first compression processing to read out the image data
stored in said first storage means and to compress the image data without reducing the size;

~~and second compression processing to compress the size-reduced image data stored in said second storage means to obtain two kinds of compressed data representing one photographed image~~

wherein, so as to input and compress the image data not reduced and to temporarily input and compress the size-reduced image data of the n lines when the storage of the size-reduced image data of the n lines into said second storage unit ends, said compression unit switches the two inputs.

2. (Currently Amended) An apparatus according to Claim 1, wherein said size reduction ~~means~~ unit includes means for converting a unit adapted to convert the format of the image data.

3. (Canceled)

4. (Currently Amended) An apparatus according to Claim 1, wherein said compression ~~means~~ comprises unit performs JPEG coding.

5. (Currently Amended) An image processing apparatus comprising:
a first storage means for storing unit, adapted to store input image data;
a compression unit, adapted to compress the image data in units of n lines;

a size reduction means for reducing unit, adapted to reduce the size
of the image data stored in said first storage means after reading out the image data unit;
an image supply unit, adapted to supply the image data stored in said
first storage unit to said compression unit and said size reduction unit in parallel without
reducing the size of the image data; and

a second storage means for storing, in a unit corresponding to a
predetermined number of lines, unit, adapted to store the size-reduced image data obtained
by said size reduction means; and unit,

single compression means for alternately performing, according to a
predetermined switching timing, first compression processing to read out the image data
stored in the first storage means and to compress the image data without reducing the size,
and second compression processing to compress the size-reduced image data stored in the
second storage means to obtain two kinds of compressed data representing one
photographed image

wherein, so as to input and compress the image data not reduced and
to temporarily input and compress the size-reduced image data of the n lines when the
storage of the size-reduced image data of the n lines into said second storage unit ends, said
compression unit switches the two inputs.

6. (New) An image processing apparatus according to Claim 1, wherein
said image processing apparatus includes a digital camera.

7. (New) An image processing method comprising:

an image pickup step, of producing image data by photographing an image;

a first storage step, of storing image data obtained in said image pickup step into a first memory;

a compression step, of compressing the image data in units of n lines;

a size reduction step, of reducing the size of the image data stored in said first storage step;

an image supply step, of supplying the image data stored in said first storage step to said compression step and said size reduction step in parallel without reducing the size of the image data; and

a second storage step, of storing the size-reduced image data obtained in said size reduction step into a second memory, the first and second memories sharing a single dynamic random access memory,

wherein, so as to input and compress the image data not reduced and to temporarily input and compress the size-reduced image data of the n lines when the storage of the size-reduced image data of the n lines in said second storage step ends, said compression step includes switching the two inputs.

8. (New) A method according to Claim 7, wherein said size reduction step includes converting the format of the image data.

9. (New) A method Claim 7, wherein said compression step includes performing JPEG coding.

10. (New) An image processing method comprising:

 a first storage step, of storing input image data into a first memory;

 a compression step, of compressing the image data in units of n lines;

 a size reduction step, of reducing the size of the image data stored in said first storage step;

 an image supply step, of supplying the image data stored in said first storage step to said compression step and said size reduction step in parallel without reducing the size of the image data; and

 a second storage step, of storing the size-reduced image data obtained in said size reduction step into a second memory, the first and second memories sharing a single dynamic random access memory,

 wherein, so as to input and compress the image data not reduced and to temporarily input and compress the size-reduced image data of the n lines when the storage of the size-reduced image data of the n lines in said second storage step ends, said compression step includes switching the two inputs.

11. (New) An image processing apparatus according to Claim 5, wherein said image processing apparatus includes a digital camera.

12. (New) An image processing method according to Claim 7, wherein
said steps are executed by a digital camera

13. (New) An image processing method according to Claim 10, wherein
said steps are executed by a digital camera.